

**Commonwealth of Kentucky**  
**Natural Resources and Environmental Protection Cabinet**  
**Department for Environmental Protection**  
**Division for Air Quality**  
**803 Schenkel Lane**  
**Frankfort, Kentucky 40601**  
**(502) 573-3382**

**AIR QUALITY PERMIT**

**Permittee Name:** Jim Beam Brands Company  
**Mailing Address:** P.O. Box - 160, Clermont, Kentucky 40110

is authorized to operate a  
distilled spirits manufacturing plant at Clermont , Kentucky

**Source Name:** Jim Beam Brands Company, Plant #1  
**Mailing Address:** P.O. Box - 160, Clermont, Kentucky 40110  
**Source Location:** Highway 245, Clermont, Kentucky 40110

**Permit Type:** Federally Enforceable  
**Review Type:** Title V  
**Permit Number:** V-98-023  
**Log Number:** E323

**Application**  
**Complete Date:** April 4, 1996  
**KYEIS I.D. #:** 104-0440-0005  
**AFS Plant I.D. #:** 21-029-00005  
**SIC Code:** 2085

**Region:** North Central  
**County:** Bullitt

**Issuance Date:**  
**Expiration Date:**

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**John E. Hornback, Director**  
**Division for Air Quality**

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## **SECTION A - PERMIT AUTHORIZATION**

Pursuant to a duly submitted application which was determined to be complete on April 4, 1996, the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This draft permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any emissions unit without first having submitted a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in the Regulation 401 KAR 50:035, Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

## **SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Unit 01 (01-001, 01-002 & 11-001) Grain Handling Operations**

#### **Description:**

Equipment includes: Truck unloading/receiving hopper, conveyors (drag-chain & screw), bucket elevators, storage silos and unpaved roads.

Control Equipment: Enclosures

Maximum operating rate: 1026 tons/day

Construction commenced: 1974

#### **Applicable Regulations:**

Regulation 401 KAR 63:010, Fugitive emissions.

#### **Applicable Requirements:**

- a) Pursuant to regulation 401 KAR 63:010, Section 3, reasonable precautions shall be taken to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, when applicable, but not limited to the following:
  - 1. Application and maintenance of asphalt, water, or suitable chemicals on roads, material stockpiles, and other surfaces which can create airborne dusts.
  - 2. Installation and utilization of hoods, fans, and fabric filters to enclose and vent the emissions generated from the processing of dust generating materials, or use of water sprays or other measures to suppress the dust emissions during handling.
- b) Pursuant to Regulation 401 KAR 63:010, Section 3, discharge of visible fugitive emissions beyond the property line is prohibited.

#### **1.      Operating Limitations:**

None

#### **2.      Emission Limitations:**

None

#### **3.      Testing Requirements:**

None

#### **4.      Specific Monitoring Requirements:**

The permittee shall monitor the amount of grain received and processed on a monthly basis.

#### **5.      Specific Record Keeping Requirements:**

Records of grain received and processed shall be maintained on a monthly basis.

**SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS**

**6.      Specific Reporting Requirements:**

See Section F.

**7.      Specific Control Equipment Operating Conditions:**

- a) The enclosures used to control fugitive emissions shall be operated as necessary to maintain compliance with applicable requirements in accordance with manufacturer's specifications and/or standard operating practices.
- b) Records regarding the maintenance of the control equipment shall be maintained.
- c) See Section E.

## **SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Unit 02 (02-001 and 03-001)   Fermentation Process**

**Description:**

Equipment includes: Fermentation and distilling process

Construction commenced: 1974

**Applicable Regulations:**

None

**1.    Operating limitations:**

None

**2.    Emission limitations:**

None

**3.    Testing Requirements:**

None

**4.    Specific Monitoring requirements:**

The permittee shall monitor bushels of grains processed on a monthly basis.

**5.    Specific Recordkeeping Requirements:**

Records of bushels of grains processed shall be maintained on a monthly basis.

**6.    Specific Reporting Requirements:**

See Section F.

**7.    Specific Control Equipment Operating Conditions:**

None

## **SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Unit 03   (03-002) Spent Grain Drying**

#### **Description:**

Equipment includes: Natural gas fired turbo-venturi dryer and process cyclone collectors

Control Equipment: Scrubber

Dryer rating: 17.5 MMBTU/hour

Secondary fuel: Propane

Maximum operating rate: 3.85 tons/hour dried grain.

Construction commenced: 1970.

#### **Applicable Regulations:**

Regulation 401 KAR 61:020, Existing process operations, applicable to an emission unit that commenced prior to July 2, 1975.

#### **1.      Operating Limitations:**

None

#### **2.      Emission Limitations:**

- a) Pursuant to Regulation 401 KAR 61:020, Section 3(2)(a), particulate emissions into the open air shall not exceed  $[ 4.10 (P)^{0.67} ]$  lbs/hour based on a three-hour-average where P is the processing rate in tons/hour averaged on a monthly basis. Compliance with the allowable particulate standard may be demonstrated by calculating particulate emissions using grain processing rates, emission factor information, and scrubber control efficiency as follows:

PM Emissions (lbs/hour) from grain drying = ( lbs / ton controlled emission factor from most recent stack test) x (grain processing rate in tons/hour)

- b) Pursuant to Regulation 401 KAR 61:020, Section 3(1)(a), visible emissions shall not equal or exceed 40% opacity based on a six-minute-average.

#### **3.      Testing Requirements:**

The permittee shall determine the opacity of emissions from each stack using US EPA Reference Method 9 annually, or more frequently if requested by the Division.

## **SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **4.      Specific Monitoring Requirements:**

- a) The permittee shall monitor the processing rate and hours of operation on a monthly basis.
- b) The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a weekly basis and maintain a log of the observations. If visible emissions from the stack are perceived or believed to exceed the applicable standard, the permittee shall determine the opacity of emissions by U.S. EPA Reference Method 9 and instigate an inspection of the control equipment for any necessary repairs.

### **5.      Specific Recordkeeping Requirements:**

Records of grain processed and hours of operation shall be maintained on a monthly basis.

### **6.      Specific Reporting Requirements:**

See Section F.

### **7.      Specific Control Equipment Conditions:**

- a) The wet scrubber shall be operated as necessary to maintain compliance with permitted emission limitations in accordance with the manufacturer's specifications and/or standard operating practices.
- b) Records regarding the maintenance of the wet scrubber shall be maintained.
- c) See Section E.



## **SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Unit 04    (03-004, 03-005)    Dried Grain Storage Silos**

#### **Description:**

Equipment includes: Three dried grain storage silos and associated with process cyclones

Control Equipment: Baghouse

Maximum operating rating: 3.85 tons/hour

Construction commenced: 1990

#### **Applicable Regulations:**

Regulation 401 KAR 59:010, New process operations, applicable to an emissions unit that commenced on or after July 2, 1975.

#### **1.      Operating Limitations:**

None

#### **2.      Emission Limitations:**

- a) Pursuant to Regulation 401 KAR 59:010, Section 3(2), particulate emissions from the stack shall not exceed  $[ 3.59 ( P )^{0.62} ]$  lbs/hour based on a three-hour-average where P is the processing rate in tons/hour. Compliance with the allowable particulate standard may be demonstrated by calculating particulate emissions using grain processing rates, emission factor information, and baghouse control efficiency.
- b) Pursuant to Regulation 401 KAR 59:010, Section 3(1)(a), any continuous emissions into the open air shall not equal or exceed 20% opacity based on a six-minute-average.

The permittee shall assure continuing compliance with the particulate emission and opacity limitations by ensuring proper operation of baghouses. Proper operation of baghouses can be ensured by fulfilling visual observation as specified in monitoring requirement below.

#### **3.      Testing Requirements:**

The permittee shall determine the opacity of emissions from each stack using US EPA Reference Method 9 annually, or more frequently if requested by the Division.

## **SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **4.      Specific Monitoring Requirements:**

- a) The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a weekly basis and maintain a log of the observations. If visible emissions from the stack are perceived or believed to exceed the applicable standard, the permittee shall determine the opacity of emissions by U.S. EPA Reference Method 9 and instigate an inspection of the control equipment for any necessary repairs.
- b) The permittee shall monitor the grain processing rate and hours of operation on a monthly basis.

### **5.      Specific Recordkeeping Requirements:**

- a) Records of grain processed and hours of operation shall be maintained on a monthly basis.

### **6.      Specific Reporting Requirements:**

See Section F.

### **7.      Specific Control Equipment Operating Conditions:**

- a) The baghouse shall be operated as necessary to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and/or standard operating practices.
- b) Records regarding the maintenance of the baghouse shall be maintained.
- c) See Section E.

## **SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Unit 05 ( 05 )    Barrel Filling, Aging, and Dumping**

**Description:**

Equipment includes: Barrel filling stations, product aging in warehouses, and barrel dumping.  
Construction commenced: Prior to 1970

**Applicable Regulations:**

None

**1.      Operating Limitations:**

None

**2.      Emission Limitations:**

None

**3.      Testing Requirements:**

None

**4.      Specific Monitoring Requirements:**

The permittee shall monitor the barrels stored on a yearly basis.

**5.      Specific Recordkeeping Requirements:**

The barrels stored shall be recorded on a yearly basis.

**6.      Specific Reporting Requirements:**

See Section F.

**7.      Specific Control Equipment Operating Conditions:**

None

## **SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

**Emissions Unit 06    (06-2 through 06-4, 07-1, and 08-1) Processing and Bottling Operations.**

**Description:**

Equipment includes: Holding, Processing, bottling tanks; bottle filling and pipeline component & peripheral equipment.

Construction commenced: Prior to 1981

**Applicable Regulations:**

None

**1.      Operating Limitations:**

None

**2.      Emission Limitations:**

None

**3.      Testing Requirements:**

None

**4.      Specific Monitoring Requirements:**

The permittee shall monitor the proof gallons processed on a yearly basis.

**5.      Specific Recordkeeping Requirements:**

Records of the proof gallons processed shall be maintained on a yearly basis.

**6.      Specific Reporting Requirements:**

None

**7.      Specific Control Equipment Operating Conditions:**

None

**SECTION B EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS****Emissions Unit 07 (09-001) Indirect Heat Exchanger****Description:**

Horizontally-opposed natural gas unit (Boiler # 3).

Maximum continuous rating: 95.2 MMBTU/hour

Secondary fuel: #2 fuel oil

Tertiary fuel: #6 fuel oil.

Construction commenced: 1970

**Applicable Regulations:**

Regulation 401 KAR 61:015, Existing indirect heat exchangers, applicable for an emissions unit with a capacity of 250 MMBTU/hour or less and commenced before April 9, 1972.

**1. Operating Limitations:**

Sulfur dioxide emissions shall not exceed 249 tons in any twelve (12) consecutive months. This annual limitation is being imposed to preclude the existing source from being considered major as defined in Regulation 401 KAR 51:017 (Prevention of Significant Deterioration).

**2. Emission Limitations:**

- a) Pursuant to Regulation 401 KAR 61:015, Section 4(1), particulate emissions shall not exceed 0.41 lb/MMBTU based on a three-hour-average. Compliance with the allowable particulate standard may be demonstrated by calculating particulate emissions for each respective fuel using fuel oil usage rates, fuel analysis, and emission factor information:

**No. 2 fuel-oil - SCC 1-02-005-01**

PM Emissions (lb/MMBTU) from combustion of No. 2 fuel-oil = (U.S. EPA approved or AP-42 emission factor: 2 lbs / 10<sup>3</sup> gallons) / (heating value from fuel analysis in MMBTU/ 10<sup>3</sup> gallons); and

**No. 6 fuel-oil - SCC 1-02-004-01**

PM Emissions (lb/MMBTU) from combustion of No. 6 fuel-oil = (U.S. EPA approved or AP-42 emission factor: [ (9.19(S) + 3.22) lbs / 10<sup>3</sup> gallons] / (heating value from fuel analysis in MMBTU/10<sup>3</sup> gallons) where S is the percent weight sulfur in the fuel oil.

- b) Pursuant to Regulation 401 KAR 61:015, Section 4(3), emissions shall not exceed 40% opacity based on a six-minute-average.
- c) Pursuant to Regulation 401 KAR 61:015, Section 5(1), sulfur dioxide emissions shall not exceed 4.0 lbs/MMBTU based on a twenty-four-hour average. Compliance with the allowable sulfur dioxide standard may be demonstrated by calculating sulfur dioxide emissions for each respective fuel using fuel oil usage rates, fuel analysis, and emission factor information:

## **SECTION B EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **No. 2 fuel-oil - SCC 1-02-005-01**

SO<sub>2</sub> Emissions (lb/MMBTU) from combustion of No. 2 fuel-oil = (U.S. EPA approved or AP-42 emission factor: 142S lbs / 10<sup>3</sup> gallons) / ( heating value from fuel analysis in MMBTU/10<sup>3</sup> gallons).

### **No. 6 fuel-oil - SCC 1-02-004-01**

SO<sub>2</sub> Emissions (lb/MMBTU) from combustion of No. 6 fuel-oil = (U.S. EPA approved or AP-42 emission factor: 157S lbs / 10<sup>3</sup> gallons) / (heating value from fuel analysis in MMBTU/ 10<sup>3</sup> gallons).

While burning natural gas, this unit is considered to be in compliance with PM, SO<sub>2</sub> and opacity standard.

### **3. Testing Requirements:**

The permittee shall determine the opacity of emissions from the stack by U.S. EPA Reference Method 9 annually, or more frequently if requested by the Division.

### **4. Specific Monitoring Requirements:**

- a) The permittee shall monitor the amount of each fuel burned on a monthly basis.
- b) The permittee shall monitor the heat content and sulfur content of the fuel oil burned on a monthly basis. The permittee may use fuel supplier certification to meet this requirement.
- c) Tons of sulfur dioxide emissions due to No. 2 or No.6 fuel oil usage shall be calculated for each month using the total No. 2 or No.6 fuel oil usage rate and the average fuel oil heat and sulfur content for that month.

### **5. Specific Recordkeeping Requirements:**

- a) Records of each fuel burned shall be maintained on a monthly basis.
- b) Fuel analysis for each fuel burned shall be maintained on a monthly basis.
- c) The permittee shall maintain records of the monthly and rolling twelve (12) month total sulfur dioxide emissions.

### **6. Specific Reporting Requirements:**

See Section F.

### **7. Specific Control Equipment Operating Conditions:**

None

## **SECTION B EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Unit 08 (09-002) Indirect Heat Exchanger**

#### **Description:**

Spreader-stoker coal fired unit with flyash reinjection (Boiler #1).

Control Equipment: Baghouse

Maximum continuous rating: 99 MMBTU/hour

Secondary fuel: Natural gas

Construction commenced: 1985

#### **Applicable Regulations:**

Regulation 401 KAR 59:015, New indirect heat exchangers, applicable to an emissions unit with a capacity of less than 250 MMBTU/hour which commenced on or after April 9, 1972.

#### **1. Operating Limitations:**

In order to ensure non-applicability of Regulation 401 KAR 51:017 (Prevention of Significant Deterioration of Air Quality), the coal usage rate in combination with the sulfur content of the coal burned shall not cause emissions of sulfur dioxide to exceed 249 tons in any twelve (12) consecutive months.

#### **2. Emission Limitations:**

- a) Pursuant to Regulation 401 KAR 59:015, Section 4(1)(c), particulate emissions shall not exceed 0.286 lb/MMBTU based on a three-hour-average. Compliance with the allowable particulate standard may be demonstrated by calculating particulate emissions for each respective fuel using fuel oil usage rates, fuel analysis, and emission factor information:

##### **Coal- SCC 1-01-002-04**

PM Emissions (lb/MMBTU) from combustion of coal = [( lbs / ton controlled emission factor from most recent stack test ) / (heating value from fuel analysis MMBTU/ton)]

- b) Pursuant to Regulation 401 KAR 59:015, Section 4(2), emissions shall not exceed 20% opacity based on a six minute average, except that a maximum of 40% opacity, based on a six minute average, shall be permissible for not more than 6 consecutive minutes in any consecutive 60 minutes during cleaning the fire-box or blowing soot.
- c) Pursuant to Regulation 401 KAR 59:015, Section 5(1)(c), sulfur dioxide emissions shall not exceed 1.81 lb/MMBTU based on a twenty-four-hour-average. Compliance with the allowable sulfur dioxide standard may be demonstrated by calculating sulfur dioxide emissions for each respective fuel using fuel oil usage rates, fuel analysis, and emission factor information:

**SECTION B EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS****Coal- SCC 1-01-002-04**

SO<sub>2</sub> Emissions (lb/MMBTU) from combustion of coal = (38S lbs / ton ) / (heating value from fuel analysis MMBTU/ton) where S is the percent weight sulfur in the coal.

While burning natural gas this unit is considered to be in compliance with PM, SO<sub>2</sub> and opacity standard.

**3. Testing Requirements:**

- a) The permittee shall conduct one stack test for particulate matter emissions within the term of this permit.
- b) When the unit is in operation burning coal, the permittee shall read, weather permitting, the opacity of emissions using U.S. EPA Reference Method 9 once a month.
- c) The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a daily basis and maintain a log of the observations. If visible emissions from the stack are perceived or believed to exceed the applicable standard, the permittee shall determine the opacity of emissions by U.S. EPA Reference Method 9 and instigate an inspection of the control equipment for any necessary repairs.

**4. Specific Monitoring Requirements:**

- a) The permittee shall get a composite sample of each shipment of coal received and monitor the sulfur content and heat content on a weekly basis.
- b) The permittee shall monitor the amount of fuel burned on a monthly basis.
- c) Emissions of sulfur dioxide emissions shall be calculated each month using emission factors, fuel usage rates, average fuel sulfur content and heat content.

**5. Specific Recordkeeping Requirements:**

- a) Records of fuel burned shall be maintained on a monthly basis.
- b) Records of the results of the analyses of sulfur content and heat content shall be maintained on a weekly basis.
- c) The permittee shall maintain records of the monthly and rolling twelve (12) month total sulfur dioxide emissions.



**SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS**

**6.      Specific Reporting Requirements:**

- a)    See Section F.

**7.      Specific Control Equipment Conditions:**

- a)    The baghouse shall be operated as necessary to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and/or standard operating practices.
- b)    Records regarding the maintenance of the baghouse shall be maintained.
- c)    See Section E.

## **SECTION B EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Unit 09 (09-003) Indirect Heat Exchanger**

#### **Description:**

Natural gas horizontally-opposed fired indirect heat exchanger (Boiler#4)

Maximum continuous rating: 25.1 MMBTU/hour

Secondary fuel: #2 fuel oil.

Construction Commenced: 1986

#### **Applicable Regulations:**

Regulation 401 KAR 59:015, New indirect heat exchangers, applicable to an emissions unit with a capacity of less than 250 MMBTU/hour which commenced on or after April 9, 1972.

#### **1. Operating Limitations:**

In order to ensure non-applicability of Regulation 401 KAR 51:017 (Prevention of Significant Deterioration of Air Quality), the emissions of sulfur dioxide shall not exceed 39 tons in any twelve (12) consecutive months.

#### **2. Emission Limitations:**

- a) Pursuant to Regulation 401 KAR 59:015, Section 4(1)(c), particulate emissions shall not exceed 0.279 lb/MMBTU based on a three-hour-average. Compliance with the allowable particulate standard may be demonstrated by calculating particulate emissions using fuel oil usage rates, fuel analysis, and emission factor information:

##### **No.2 Fuel oil - SCC 1-03-005-01**

PM Emissions (lb/MMBTU) from combustion of fuel oil = ( U.S. EPA approved or AP-42 emissions factor: 2.0 lbs / 10<sup>3</sup> gallons ) / (heating value from fuel analysis in MMBTU/10<sup>3</sup> gallons).

- b) Pursuant to Regulation 401 KAR 59:015, Section 5(1), sulfur dioxide emissions shall not exceed 0.84 lb/MMBTU based on a twenty-four-hour average . Compliance with the allowable sulfur dioxide standard may be demonstrated by calculating sulfur dioxide emissions using fuel oil usage rates, fuel analysis, and emission factor information:

##### **No.2 Fuel oil - SCC 1-03-005-01**

SO<sub>2</sub> Emissions (lb/MMBTU) from combustion of fuel oil= (U.S. EPA approved or AP-42 emission factor: 142S lbs / 10<sup>3</sup> gallons ) / (heating value from fuel analysis in MMBTU / 10<sup>3</sup> gallons).

## **SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

While burning natural gas, this unit is considered to be in compliance with PM, SO<sub>2</sub> and opacity standard.

- c) Pursuant to Regulation 401 KAR 59:015, Section 4(2), emissions shall not exceed 20% opacity based on a six minute average, except that a maximum of 40% opacity based on a six minute average, shall be permissible for not more than 6 consecutive minutes in any consecutive 60 minutes during cleaning the fire-box or blowing soot.

### **3.      Testing Requirements:**

The permittee shall determine the opacity of emissions from the stack using U.S. EPA Reference Method 9 annually, or more frequently if requested by the Division.

### **4.      Specific Monitoring Requirements:**

- a) The permittee shall monitor the heat content and sulfur content of the fuel oil burned on a monthly basis. The permittee may use fuel supplier certification to meet this requirement.
- b) Tons of sulfur dioxide emissions due to No. 2 fuel oil usage shall be calculated for each month using the total No. 2 fuel oil usage rate, and the average fuel oil sulfur and heat content for that month.

### **5.      Specific Recordkeeping Requirements:**

- a) Records of gallons of No. 2 fuel oil burned each month shall be maintained.
- b) Records of the sulfur and heat content of fuel oil burned shall be maintained on a monthly basis.
- c) The permittee shall maintain records of the monthly and rolling twelve (12) month total sulfur dioxide emissions.

### **6.      Specific Reporting Requirements:**

See Section F.

### **7.      Specific Control Equipment Operating Conditions:**

None

## **SECTION B      EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Unit 10 (12-001) Wastewater Treatment Process**

**Description:**

Equipment includes: Wastewater treatment system, supporting tanks, dikes, berms, and pipeline equipment.

Maximum continuous rating: 0.345 million gallons/day

Storm surge: 0.646 million gallons/day

Construction Commenced: 1989

**Applicable Regulations:**

None

**1.      Operating Limitations:**

None

**2.      Emission Limitations:**

None

**3.      Testing Requirements:**

None

**4.      Specific Monitoring Requirements:**

Permittee shall monitor the gallons of wastewater treated on an yearly basis.

**5.      Specific Recordkeeping Requirements:**

Gallons of wastewater treated shall be recorded on an yearly basis.

**6.      Specific Reporting Requirements:**

See Section F.

**7.      Specific Control Equipment Operating Conditions:**

None

**SECTION C - INSIGNIFICANT ACTIVITIES**

The following listed activities have been determined to be insignificant activities for this source pursuant to Regulation 401 KAR 50:035, Section 5(4). While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

<u>Application</u> <u>Emission Point No.</u>	<u>Description</u>	<u>Generally</u> <u>Applicable Regulations</u>
01-003	Grain Receiver Cyclone	401 KAR 61:020
01-004	Grain Receiver Cyclone	401 KAR 61:020
01-005	Grain Receiver Cyclone	401 KAR 61:020
01-006	Grain Unloading	401 KAR 63:010
02-002	Low Wine Condenser	NA
02-003	High Wine Condenser	NA
02-004	Heads/Tails Tank	NA
02-005	Retention Tank	NA
02-006	Surge Tank	NA
02-007	Cistern Tanks	NA
02-008	Still Bottle Vent	NA
02-009	Still Bottle Vent	NA
02-010	Stripper Still Pressure Relief	NA
02-011	Converter Vacuum Relief	NA
02-012	Doubler Bottle Vent	NA
03-003	Aerator Cyclone	401 KAR 59:010
03-006	Distiller's Dry Grain Loading	401 KAR 59:010
06-001	Regauge Area Tanks	NA
07-002	Labeling	NA
07-003	Jet Coding	NA
09-004	Ash Handling Baghouse	401 KAR 59:010
09-005	Wetted Ash Loading	401 KAR 59:010
09-006	Coal Handling	401 KAR 63:010
09-007	Cooling Tower	NA
09-008	Fuel Oil Storage Tank	NA
10-001	Pump House Diesel Storage Tank	NA
10-002	Kerosene Storage Tank	NA
10-003	Wood Terminal Diesel Storage Tank	NA
10-004	Gasoline Storage Tank	NA
12-002	Sulfuric Acid Tank	NA
13-001	Mobile Sources (forklifts, tractors, vans, & flatbed trucks)	401 KAR 63:010
14-001	Maintenance Activities ( degreasers, painting, and coating)	NA
14-004	Two Diesel fire pumps	NA

## **SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS**

1. Particulate matter, sulfur dioxide, and visible emissions as measured by methods referenced in 401 KAR 50:015, Section 1, shall not exceed the respective limitations specified herein.
2. Compliance with annual emissions and processing limitations imposed pursuant to 401 KAR 50:035, Section 7(1)(a), and contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months unless otherwise specified.

## **SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS**

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any emissions unit including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

## **SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS**

1. When continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
  - a) Date, place as defined in this permit, and time of sampling or measurements.
  - b) Analyses performance dates;
  - c) Company or entity that performed analyses;
  - d) Analytical techniques or methods used;
  - e) Analyses results; and
  - f) Operating conditions during time of sampling or measurement.
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the source authorized by this permit for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality. [401 KAR 50:035, Permits, Section 7(1)(d)2 and 401 KAR 50:035, Permits, Section 7(2)(c)]
3. In accordance with the requirements of Regulation 401 KAR 50:035, Permits, Section 7(2)(c) the permittee shall allow the Division or authorized representatives to perform the following:
  - a) Enter upon the premises where a source is located or emissions-related activity is conducted, or where records are kept;
  - b) Have access to and copy, at reasonable times, any records required by the permit:
    - i ) During normal office hours, and
    - ii) During periods of emergency when prompt access to records is essential to proper assessment by the Division;
  - c) Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit. Reasonable times shall include, but are not limited to the following:
    - i ) During all hours of operation at the source,
    - ii) For all sources operated intermittently, during all hours of operation at the source and the hours between 8:00 a.m. and 4:30 p.m., Monday through Friday, excluding holidays, and
    - iii) During an emergency; and
  - d) Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements. Reasonable times shall include, but are not limited to the following:
    - i ) During all hours of operation at the source,
    - ii) For all sources operated intermittently, during all hours of operation at the source and the hours between 8:00 a.m. and 4:30 p.m., Monday through Friday, excluding holidays, and
    - iii) During an emergency.



## **SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)**

4. No person shall obstruct, hamper, or interfere with any Division employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be reported to the Division's Frankfort Regional Office no later than the six-month anniversary date of this permit and every six months thereafter during the life of this permit, unless otherwise stated in this permit. Data from the continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of Regulation 401 KAR 59:005, General Provisions, Section 3(3). All reports shall be certified by a responsible official pursuant to Section 6(1) of Regulation 401 KAR 50:035, Permits. All deviations from permit requirements shall be clearly identified in the reports.
6.
  - a) In accordance with the provisions of Regulation 401 KAR 50:055, Section 1 the owner or operator shall notify the Division for Air Quality's Frankfort Regional Office concerning startups, shutdowns, or malfunctions as follows:
    - i) When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
    - ii) When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards notification shall be made as promptly as possible by telephone (or other electronic media) and shall cause written notice upon request.
  - b) In accordance with the provisions of Regulation 401 KAR 50:035, Section 7(1)(e)2, the owner or operator shall promptly report deviations from permit requirements including those attributed to upset conditions to the Division for Air Quality's Frankfort Regional Office. Prompt reporting shall be defined as quarterly for any deviation related to emission standards (other than emission exceedances covered by general condition 6(a) above) and semi-annually for all other deviations from the permit requirements if not otherwise specified in the permit.

## **SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)**

7. Pursuant to Regulation 401 KAR 50:035, Permits, Section 7(2)(b), the permittee shall certify compliance with the terms and conditions contained in this permit, annually on the permit issuance anniversary date by completing and returning a Compliance Certification Form (DEP 7007CC) (or an approved alternative) to the Division for Air Quality's Frankfort Regional Office and the U.S. EPA in accordance with the following requirements:
  - a) Identification of each term or condition of the permit that is the basis of the certification;
  - b) The compliance status regarding each term or condition of the permit;
  - c) Whether compliance was continuous or intermittent;
  - d) The method used for determining the compliance status for the source, currently and over the reporting period, pursuant to 401 KAR 50:035, Section 7(1)(c),(d), and (e).
  - e) The certification shall be postmarked by the thirtieth (30th) day following the applicable permit issuance anniversary date.
8. In accordance with Regulation 401 KAR 50:035, Section 23, the permittee shall provide the division with all information necessary to determine its subject emissions within thirty (30) days of the date the KEIS emission report is mailed to the permittee.
9. Pursuant to Section VII.3 of the policy manual of the Division for Air Quality as referenced by Regulation 401 KAR 50:016, Section 1(1). Results of the performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five (45) days after the completion of the field work.

## SECTION G - GENERAL CONDITIONS

### a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be (a) violation(s) of State Regulation 401 KAR 50:035, Permits, Section 7 (3)(d) and for federally enforceable permits is also a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) and are grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.
2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition.
3. This permit may be revised, revoked, reopened and reissued, or terminated for cause. The permit will be reopened for cause and revised accordingly under the following circumstances:
  - i) If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to Regulation 401 KAR 50:035, Section 12 (2) (c);
  - ii) If any additional applicable requirements of the Acid Rain Program become applicable to the source;
  - iii) The Division or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
  - iv) The Division or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish to the Division, in writing, information that the Division may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.[401 KAR 50:035, Permits, Section 7(2)(b)3e and 401 KAR 50:035, Permits, Section 7(3)(j)]
5. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit. [401 KAR 50:035, Permits, Section 7(3)(k)]

**SECTION G - GENERAL CONDITIONS (CONTINUED)**

6. Pursuant to Regulation 401 KAR 50:035, Section 7(3)(e), the permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance.
7. Except as identified as state-origin requirements in this permit, all terms and conditions contained herein shall be enforceable by the United States Environmental Protection Agency and citizens of the United States.
8. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6). [401 KAR 50:035, Permits, Section 7(3)(h)]
9. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 50:035, Permits, Section 8(3)(b)]
10. This permit shall not convey property rights or exclusive privileges. [401 KAR 50:035, Permits, Section 7 (3)(g)]
11. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Natural Resources and Environmental Protection or any other federal, state, or local agency.
12. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry. [401 KAR 50:035 , Permits, Section 7(2)(b)5]
13. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders. [401 KAR 50:035, Permits, Section 8(3)(a)]
14. PERMIT SHIELD: Except as provided in State Regulation 401 KAR 50:035, Permits, compliance by the emissions units listed herein with the conditions of this permit shall be deemed to be compliance with all applicable requirements as of the date of the issuance of the permit.
15. Emission limitations listed in this permit shall apply at all the times except during periods of startup, shutdown, or malfunctions in accordance with Regulation 401 KAR 50:055, as long as the permittee follows the requirements of Regulation 401 KAR 50:055.

## **SECTION G - GENERAL CONDITIONS (CONTINUED)**

16. Pursuant to Section VII 2(1) of the policy manual of the Division for Air Quality as referenced by Regulation 401 KAR 50:016, Section 1(1), at least one month prior to the date of the required performance test, the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the Division's Frankfort Central Office. Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least ten (10) days prior to the test.
17. All previously issued construction and operating permits are hereby null and void.

### **b) Permit Expiration and Reapplication Requirements**

1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 50:035, Permits, Section 12]

### **c) Permit Revisions**

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of Regulation 401 KAR 50:035, Section 15.
2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority thirty (30) days in advance of the transfer.

### **d) Acid Rain Program Requirements**

1. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

## **SECTION G - GENERAL CONDITIONS (CONTINUED)**

### **e) Emergency Provisions**

1. An emergency shall constitute an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or other relevant evidence that:
  - i) An emergency occurred and the permittee can identify the cause of the emergency;
  - ii) The permitted facility was at the time being properly operated;
  - iii) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and,
  - iv) The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency. The notice shall meet the requirements of 401 KAR 50:035, Permits, Section 7(1)(e)2, and include a description of the emergency, steps taken to mitigate emissions, and the corrective actions taken. This requirement does not relieve the source of any other local, state or federal notification requirements.
2. Emergency conditions listed in General Condition e(1) above are in addition to any emergency or upset provision(s) contained in an applicable requirement.
3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 50:035, Permits, Section 9(3)]

### **f) Risk Management Provisions under CAA 112(r)**

1. The permittee shall comply with all applicable requirements of 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall:
  - a. Submit a Risk Management Plan to the U.S. EPA Region IV with a copy to this Division and comply with the Risk Management Program by June 21, 1999 or a latter date specified by the U.S. EPA.
  - b. Submit additional relevant information if requested by the Division or the U.S. EPA.

## **SECTION G - GENERAL CONDITIONS (CONTINUED)**

### **g) Ozone Depleting Substances**

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
  - a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
  - c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
  - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166.
  - e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
  - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

## **SECTION H - ALTERNATE OPERATING SCENARIOS**

None

## **SECTION I - COMPLIANCE SCHEDULE**

None